

(48 BALL)


SYMBOL	JEDEC VARIATION			NOTE
	NOT YET REGISTERED	MIN	NOM	
A	-	-	-	1.20
A1	.20	.25		.35
D		9.00 BSC		
E		9.00 BSC		
M		6 X 8		3
N		48		4
e		.75 BSC		
b	.30	.35	.45	5
CENTER BALL MATRIX		N/A		

REVISIONS

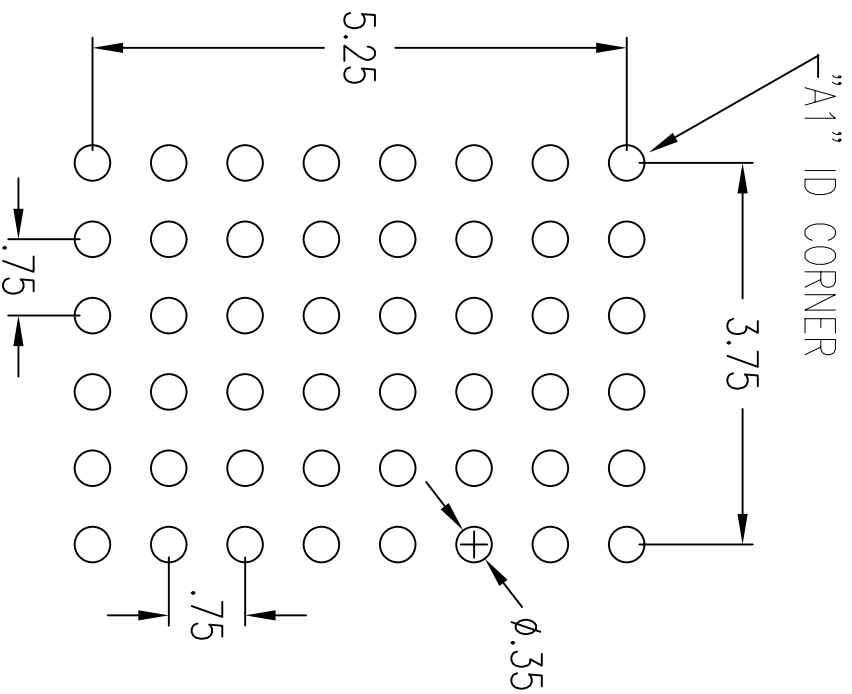
REV	DESCRIPTION	DATE	APPROVED
01	CHANGE "b" DIM	04/25/02	ADP
02	CHANGE "A1" DIM	09/07/04	MPJ/E
03	ADD "GREEN" BEG NOMENCLATURE	10/27/04	JYL/JYL
04	COMBINE POD & LAND PATTERN	05/24/13	J.C.B

NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- 2 "e" REPRESENTS THE BASIC SOLDER BALL GRID PITCH
- 3 "M" REPRESENTS THE MAXIMUM SOLDER BALL MATRIX SIZE
- 4 "N" REPRESENTS THE BALLCOUNT NUMBER
- 5 DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM  $\boxed{-C-}$
- 6 SEATING PLANE AND PRIMARY DATUM  $\boxed{-C-}$  ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
- 7 "A1" ID CORNER MUST BE IDENTIFIED BY CHAMFER, INK MARK, METALLIZED MARKING, INDENTATION OR OTHER FEATURE ON PACKAGE BODY
- 8 IF "A1" ID CORNER IS ON PACKAGE BODY, IT MUST BE LOCATED WITHIN THE ZONE INDICATED
- 9 ALL DIMENSIONS ARE IN MILLIMETERS

<p>TOLERANCES UNLESS SPECIFIED</p> <p>DECIMAL ANGULAR</p> <p>XXX± F</p> <p>XXXX±</p>		 <p>6024 SILVER CREEK VALLEY ROAD SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591</p>
<p>APPROVALS</p> <p>DRAWN JYJ</p> <p>CHECKED</p>	<p>DATE</p> <p>07/05/00</p>	
<p>TITLE</p> <p>BE/BEG PACKAGE OUTLINE</p>		
<p>SIZE</p> <p>9.0 X 9.0 mm BODY</p>		
<p>DRAWING No.</p> <p>PSC-4090</p>		<p>REV</p> <p>04</p>
<p>DO NOT SCALE DRAWING</p>		<p>SHEET 2 OF 3</p>


REV	DESCRIPTION	DATE	APPROVED
01	CHANGE "b" DIM	04/25/02	ASJL
02	CHANGE "A1" DIM	09/07/04	MLJES
03	ADD "GREEN" BEG NOMENCLATURE	10/27/04	STL JYL
04	COMBINE POD & LAND PATTERN	05/24/13	JC.S



RECOMMENDED LAND PATTERN

NOTE:

- 1) ALL dimensions are in mm, Angles in degrees.
- 2) Top down view, as view on PCB.
- 3) NSMD Land Pattern Assumed
- 4) Land Pattern Recommendation as per IPC-7351B generic requirement for surface mount design and Land Pattern.

TOLERANCES UNLESS SPECIFIED		ANGULAR		 <b>8024 SILVER CREEK VALLEY ROAD</b> <b>SAN JOSE, CA 95138</b> <b>PHONE: (408) 294-8200</b> <b>FAX: (408) 294-8591</b>
DECIMAL	±	ANGULAR	±	
XXX±		XXXX±		<b>www.IDT.com</b> <b>www.IDT.com</b>
XXXX±		XXXX±		
APPROVALS	DATE	TITLE	SIZE	REV
DRAWN: JYJ	07/05/00	BE/BEG PACKAGE OUTLINE	C	04
CHECKED		FPBGA	DRAWING No.	
		9.0 X 9.0 mm BODY	PSC-4090	
DO NOT SCALE DRAWING			SHEET 3 OF 3	